Figure 1

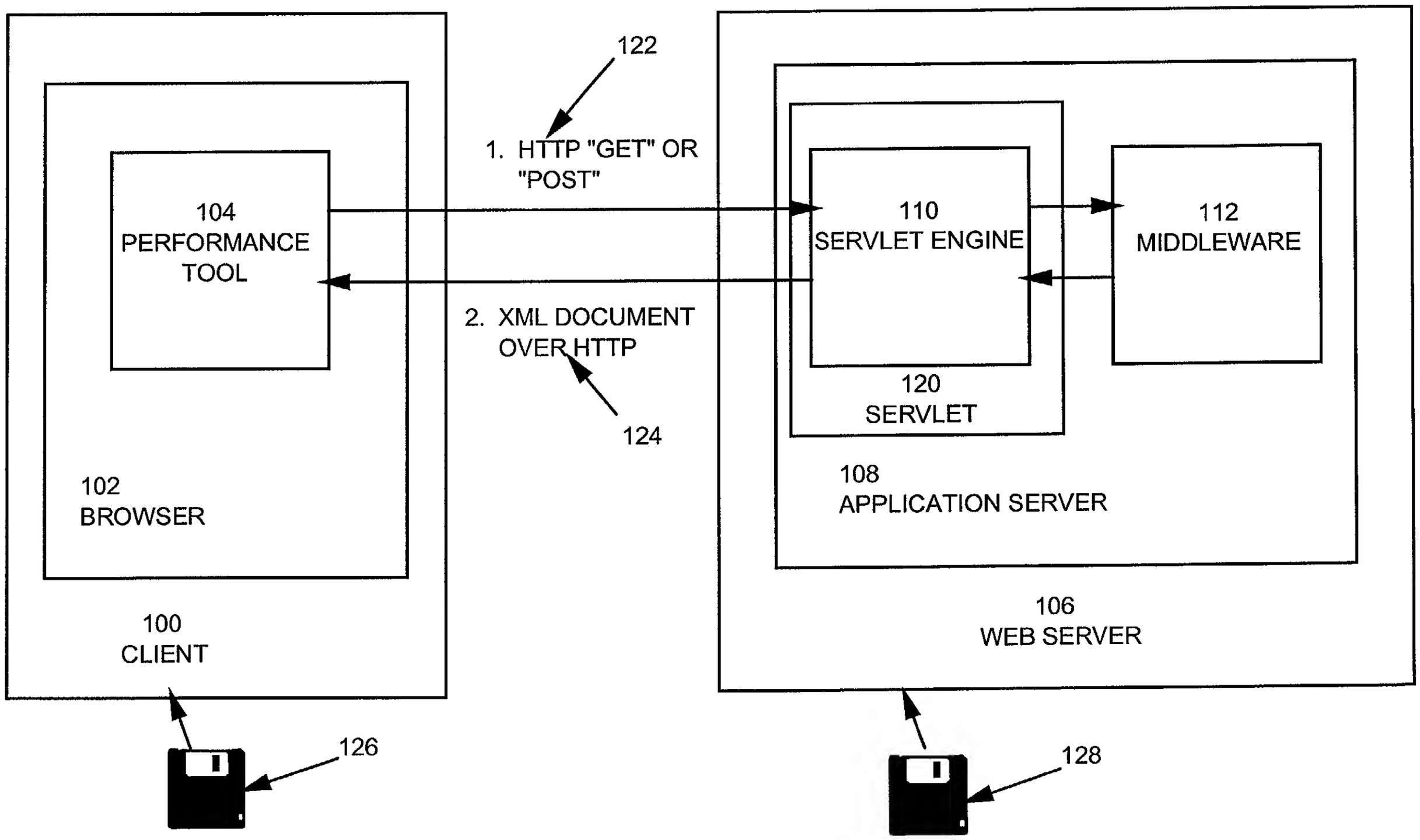

122
1. HTTP "GET" OR "POST"
104 PERFORMANCE TOOL
110 SERVLET ENGINE
112 MIDDLEWARE
2. XML DOCUMENT OVER HTTP
124
120 SERVLET
108 APPLICATION SERVER
102 BROWSER
100 CLIENT
106 WEB SERVER
126
128

Figure 2

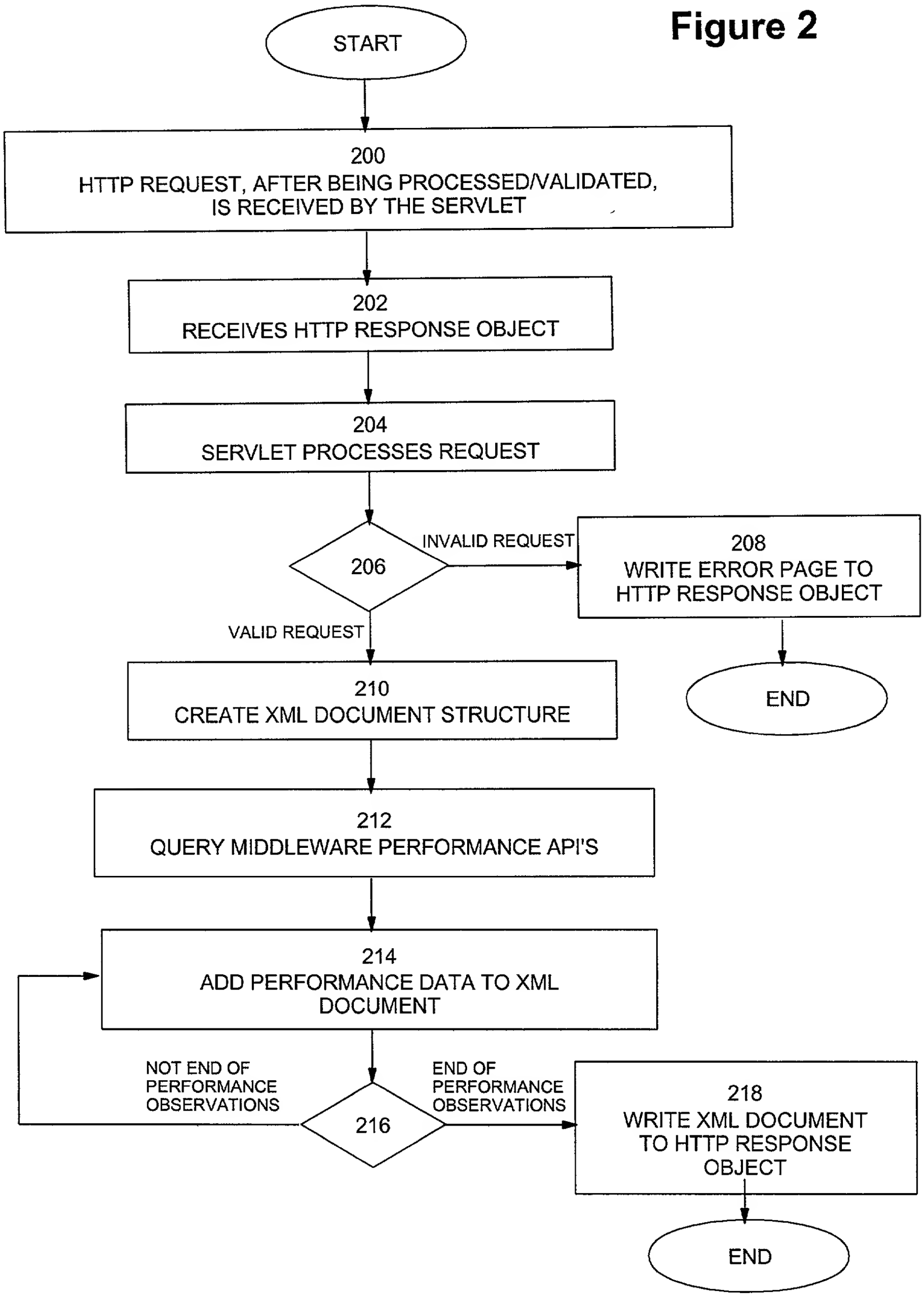

START
200
HTTP REQUEST, AFTER BEING PROCESSED/VALIDATED, IS RECEIVED BY THE SERVLET
202
RECEIVES HTTP RESPONSE OBJECT
204
SERVLET PROCESSES REQUEST
206
INVALID REQUEST
208
WRITE ERROR PAGE TO HTTP RESPONSE OBJECT
END
VALID REQUEST
210
CREATE XML DOCUMENT STRUCTURE
212
QUERY MIDDLEWARE PERFORMANCE API'S
214
ADD PERFORMANCE DATA TO XML DOCUMENT
NOT END OF PERFORMANCE OBSERVATIONS
216
END OF PERFORMANCE OBSERVATIONS
218
WRITE XML DOCUMENT TO HTTP RESPONSE OBJECT
END

FIGURE 4

```
<?XML version="1.0" encoding="UTF-8"?>
<!DOCTYPE PerformanceMonitor >
<PerformanceMonitor>
  <RuntimeResources>
    <MemoryFree>
      <PerfNumericInfo uid="epm4" time="225" val="12577511"/>
    </MemoryFree>
    <MemoryTotal>
      <PerfNumericInfo uid="epm5" time="225" val="16777207"/>
    </MemoryTotal>
    <MemoryUse>
      <PerfNumericInfo uid="epm6" time="225" val="4199696"/>
    </MemoryUse>
  </RuntimeResources>
```

```
<Sessions>
    <SessionsCreated>
      <PerfNumericInfo uid="epm373" time="203" val="0"/>
    </SessionsCreated>
     <SessionsActive>
      <PerfNumericInfo uid="epm374" time="203" val="0.0"/>
    </SessionsActive>
    <SessionsInvalidated>
      <PerfNumericInfo uid="epm375" time="203" val="0"/>
    </SessionsInvalidated>
    <SessionLifetime>
      <PerfStatInfo uid="epm378" time="203"  ss="0.0" obs="0"/>
    </SessionLifetime>
  </Sessions>
</PerformanceMonitor>
```

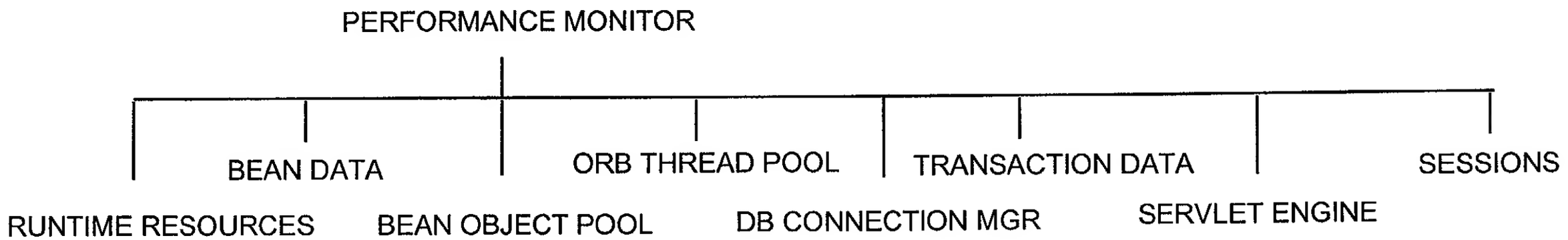


FIGURE 3A

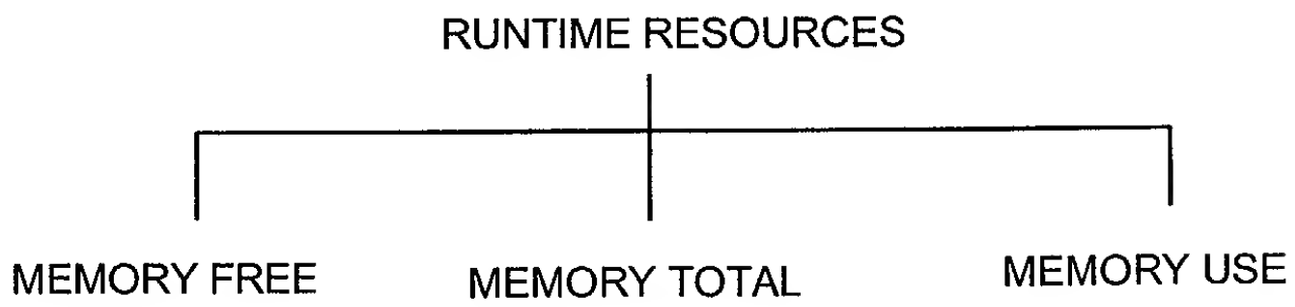


FIGURE 3B

FIGURE 3C

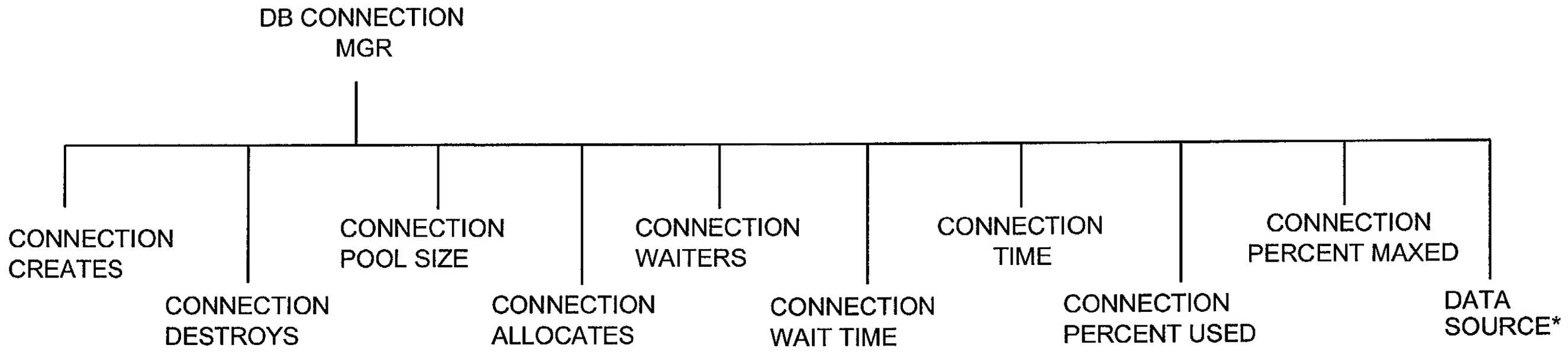


FIGURE 3D

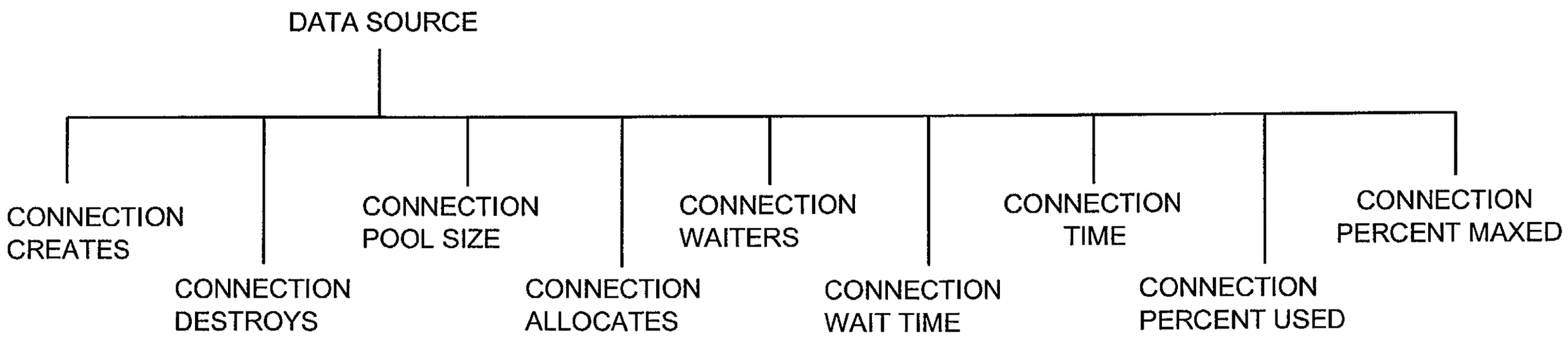


FIGURE 3E

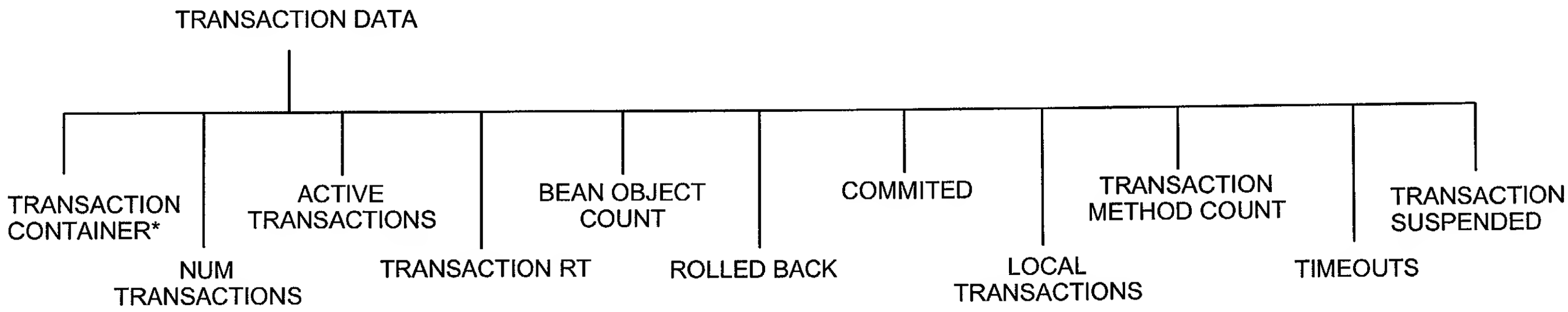
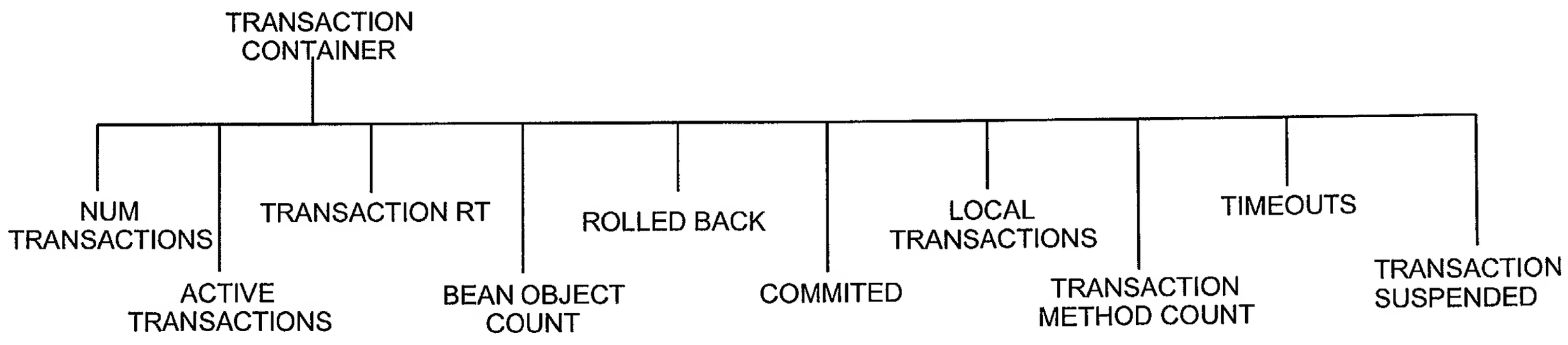


FIGURE 3F



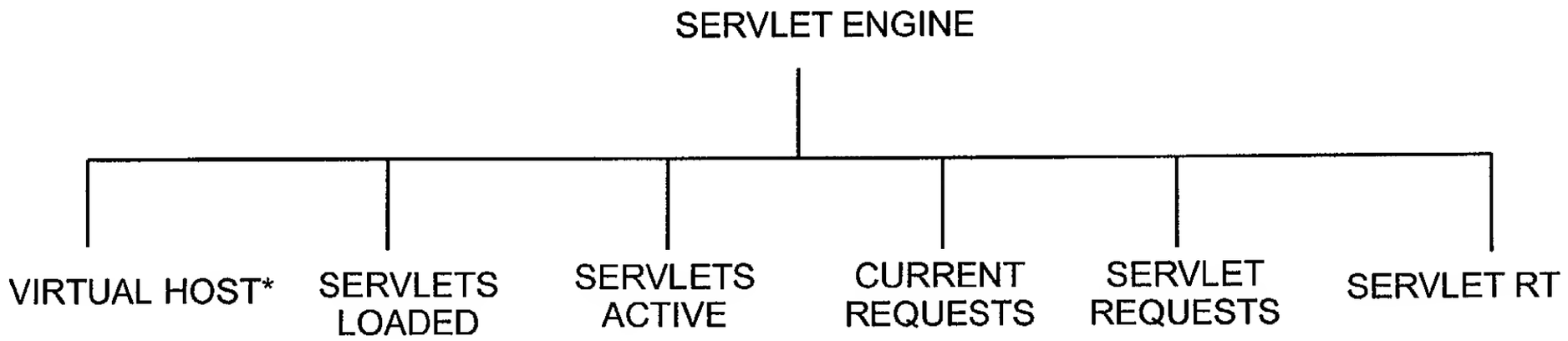


FIGURE 3G

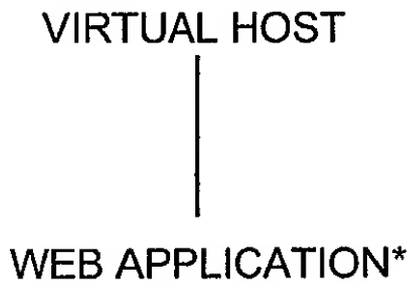


FIGURE 3H

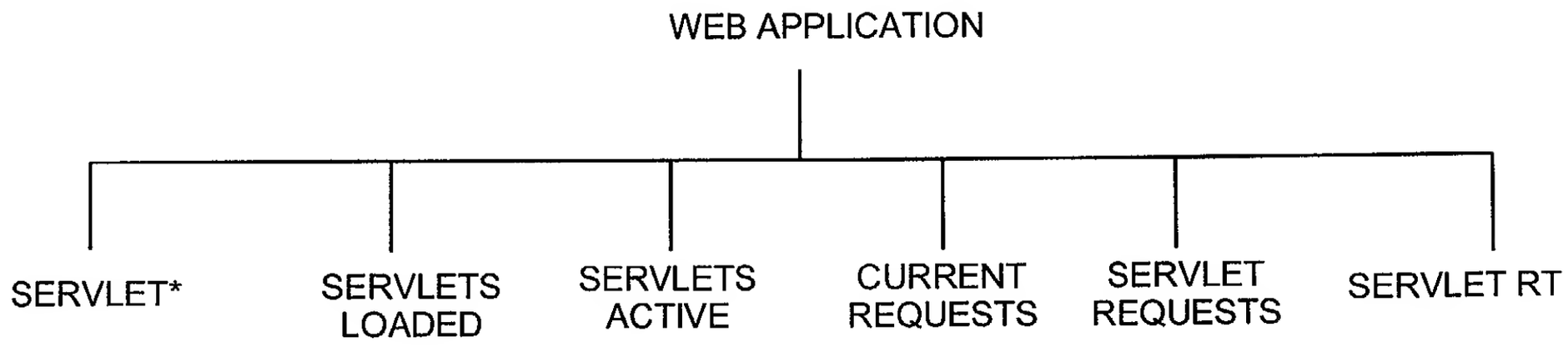


FIGURE 3I

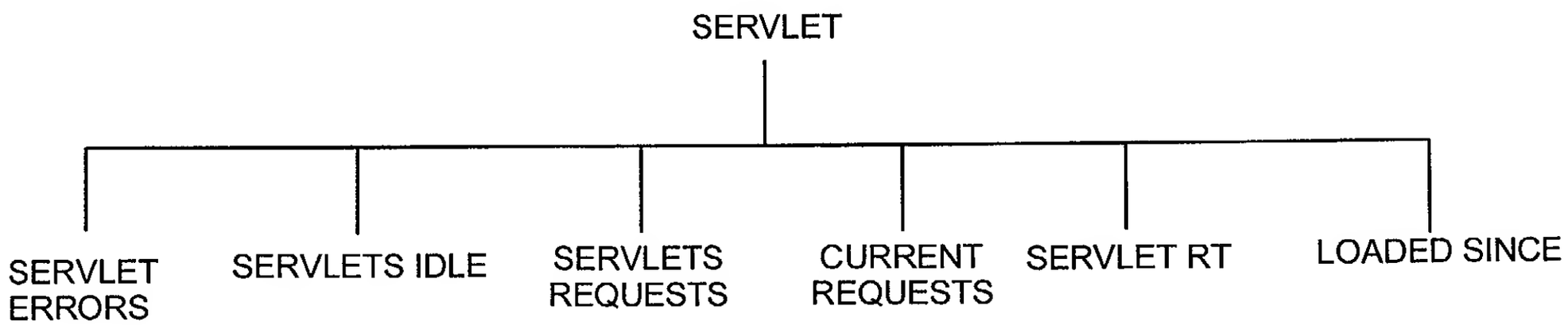
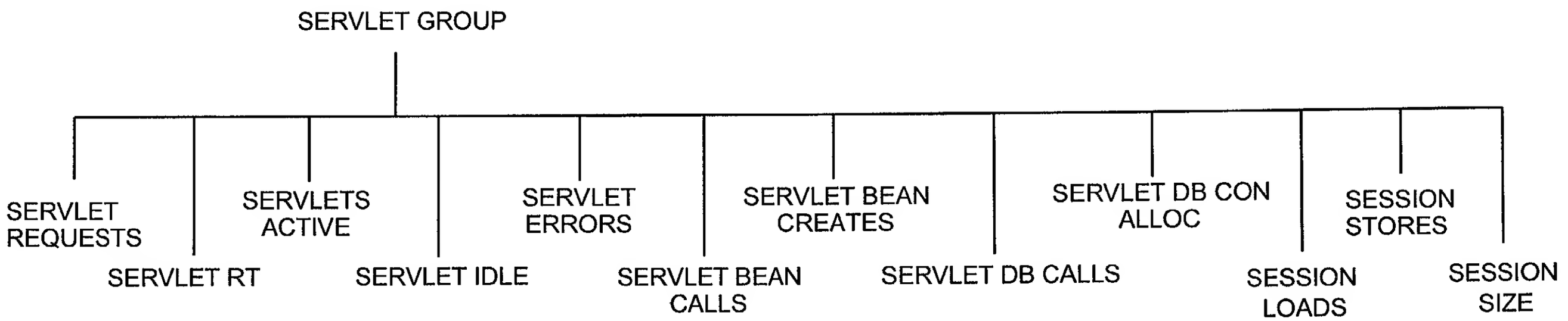


FIGURE 3J

FIGURE 3K



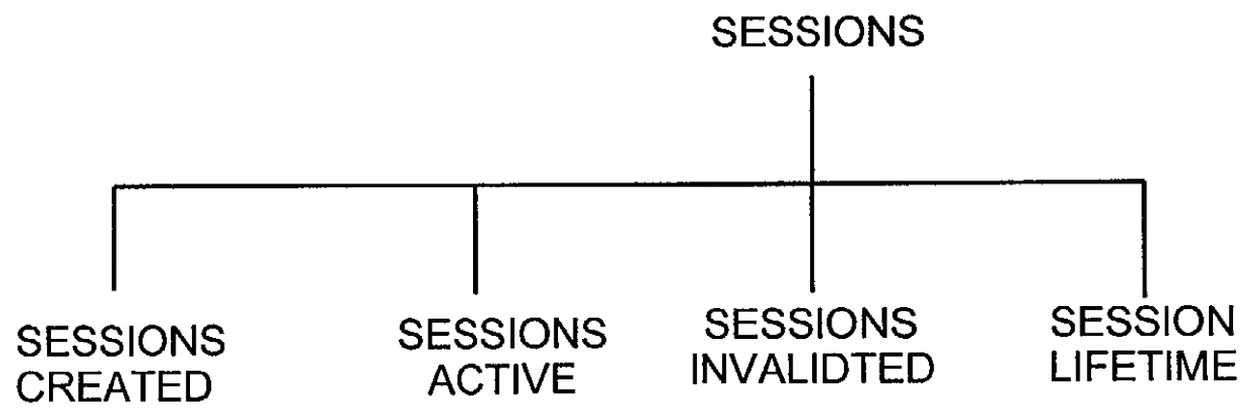


FIGURE 3L

FIGURE 3M

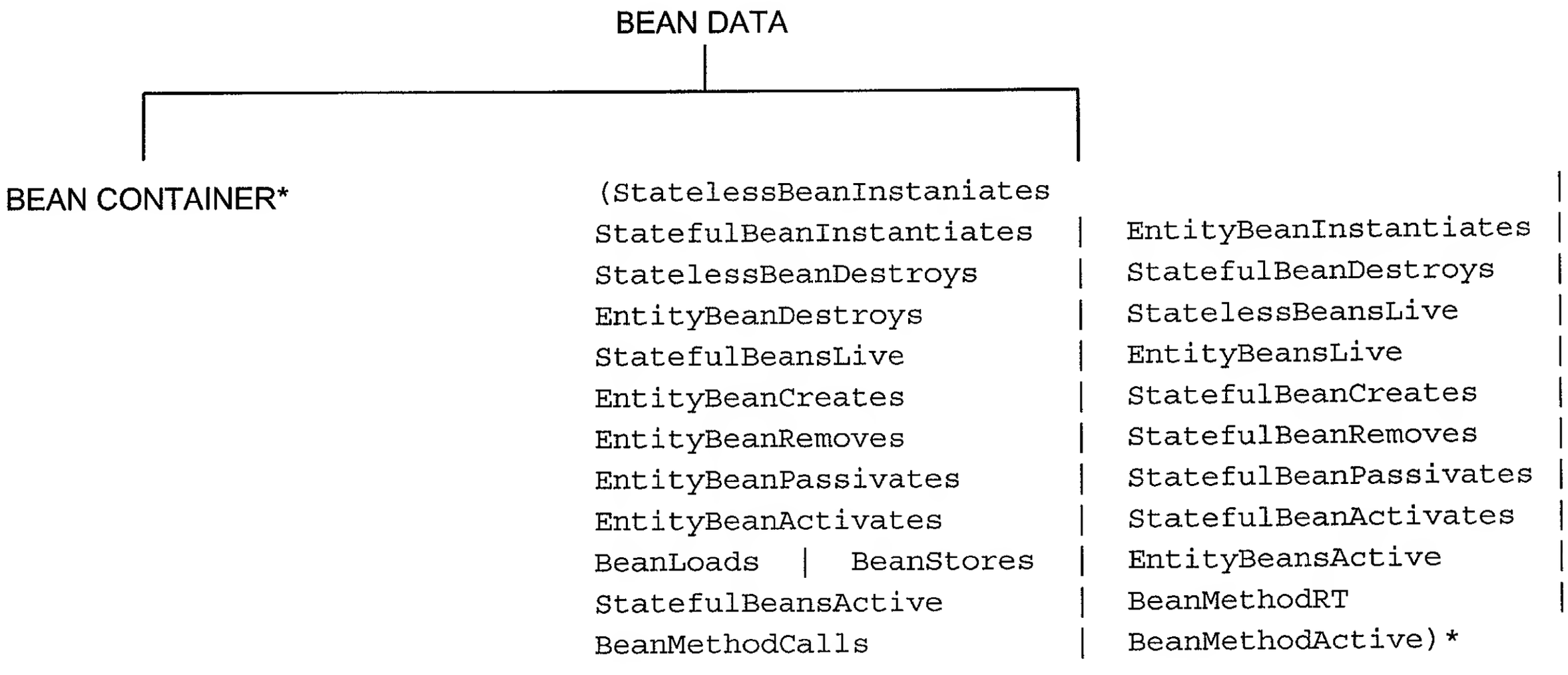

BEAN DATA
BEAN CONTAINER*
(StatelessBeanInstaniates
StatefulBeanInstantiates
StatelessBeanDestroys
EntityBeanDestroys
StatefulBeansLive
EntityBeanCreates
EntityBeanRemoves
EntityBeanPassivates
EntityBeanActivates
BeanLoads | BeanStores
StatefulBeansActive
BeanMethodCalls
EntityBeanInstantiates
StatefulBeanDestroys
StatelessBeansLive
EntityBeansLive
StatefulBeanCreates
StatefulBeanRemoves
StatefulBeanPassivates
StatefulBeanActivates
EntityBeansActive
BeanMethodRT
BeanMethodActive)*

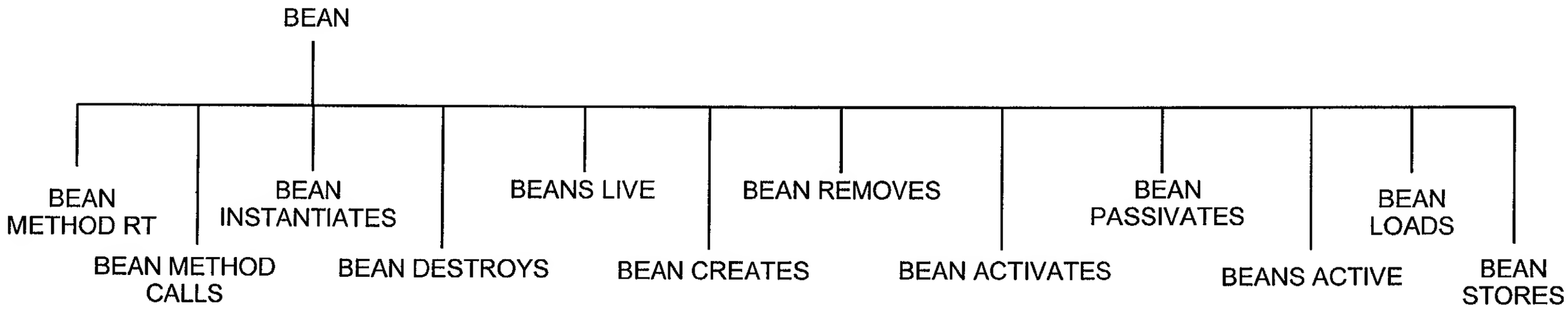
FIGURE 3N

BEAN CONTAINER

BEAN*

(StatelessBeanInstaniates	
StatefulBeanInstantiates	EntityBeanInstantiates
StatelessBeanDestroys	
StatefulBeanDestroys	EntityBeanDestroys
StatelessBeansLive	
StatefulBeansLive	EntityBeansLive
BeanMethodRT	BeanMethodCalls
EntityBeanCreates	StatefulBeanCreates
EntityBeanRemooves	
StatefulBeanRemoves	EntityBeanPassivates
StatefulBeanPassivates	
EntityBeansActivates	StatefulBeansActivates
BeanLoads	BeanStores
EntityBeansActive	StatefulBeansActive
BeanMethodRT	BeanMethodActive)*

FIGURE 3O



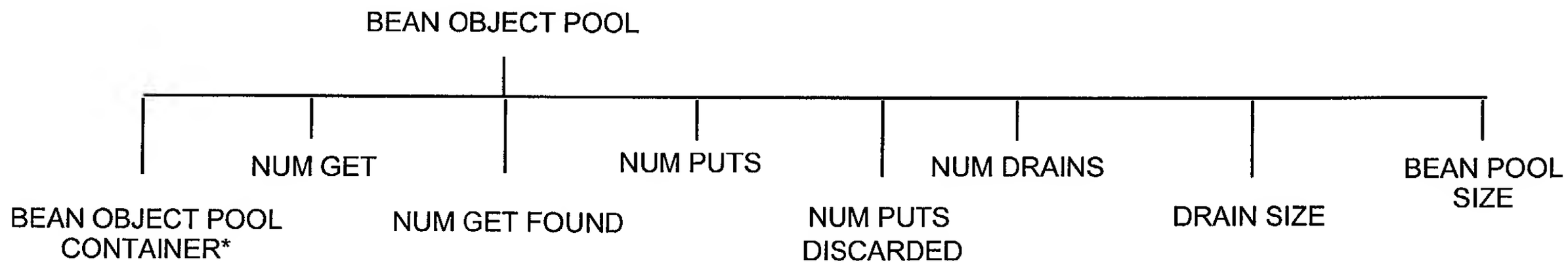


FIGURE 3P

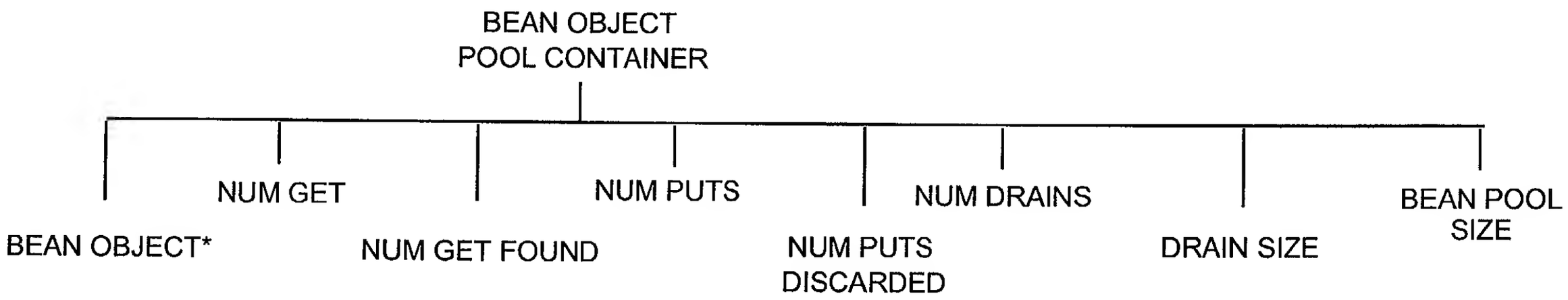


FIGURE 3Q

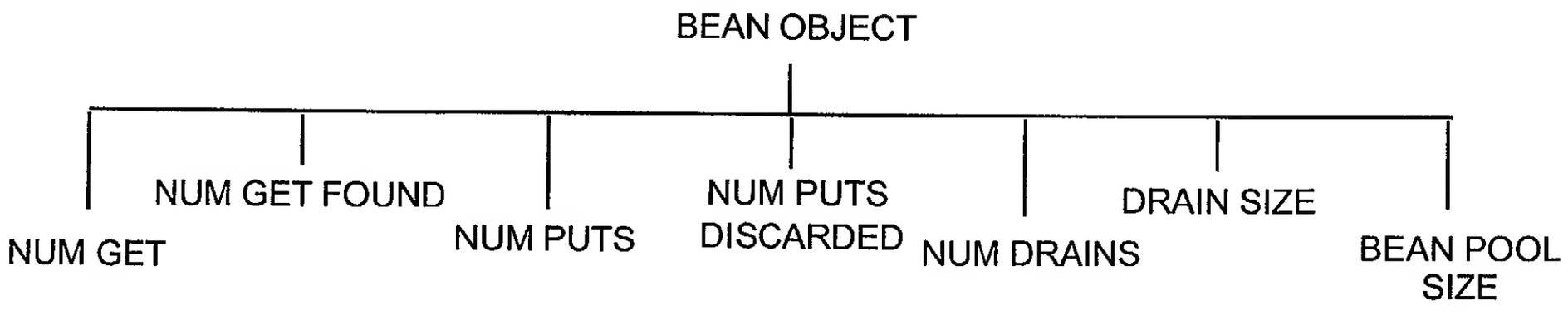


FIGURE 3R

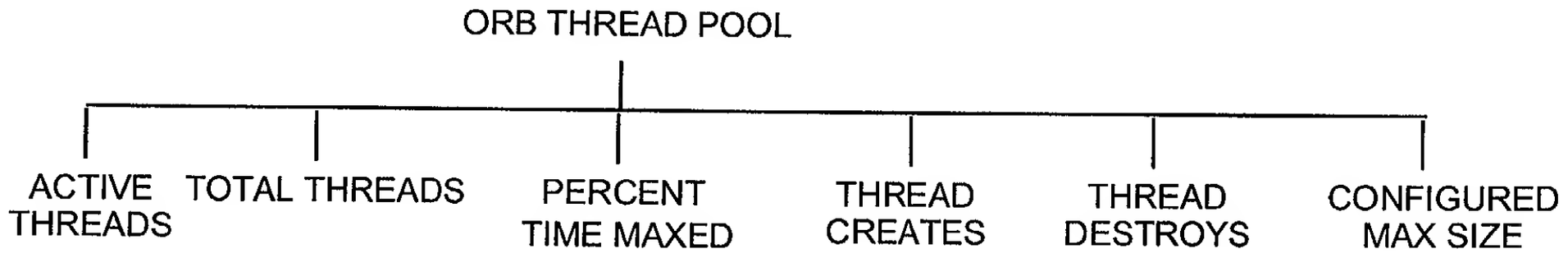

ORB THREAD POOL
ACTIVE THREADS
TOTAL THREADS
PERCENT TIME MAXED
THREAD CREATES
THREAD DESTROYS
CONFIGURED MAX SIZE

FIGURE 3S